

FIG. 1

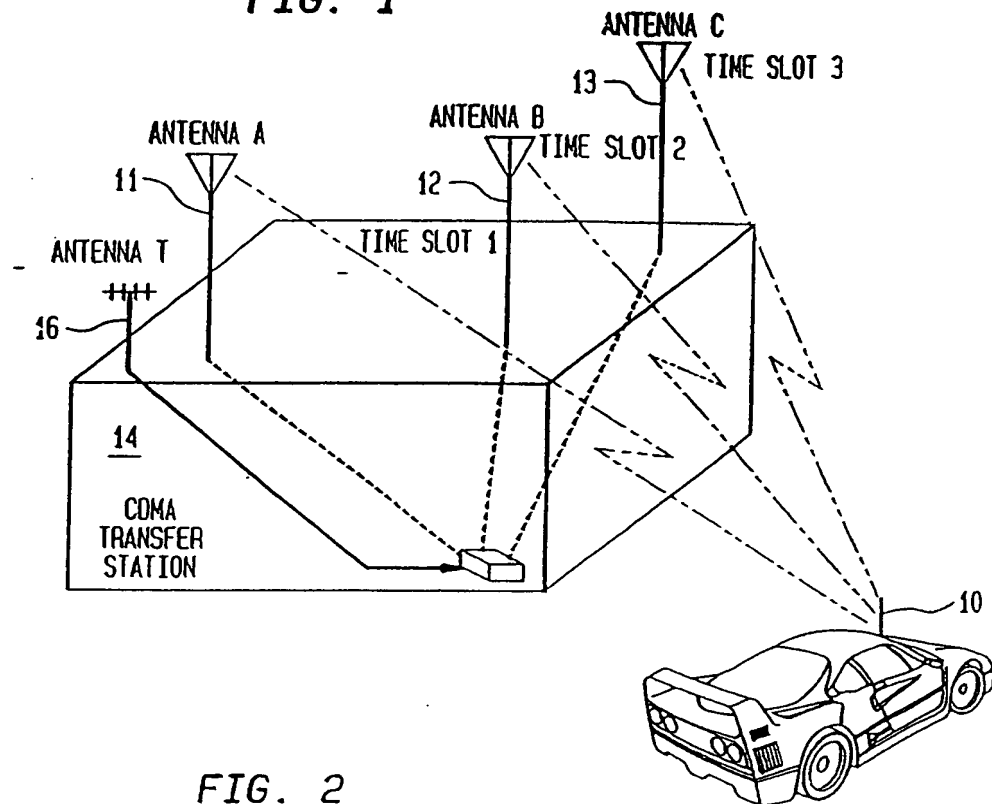


FIG. 2

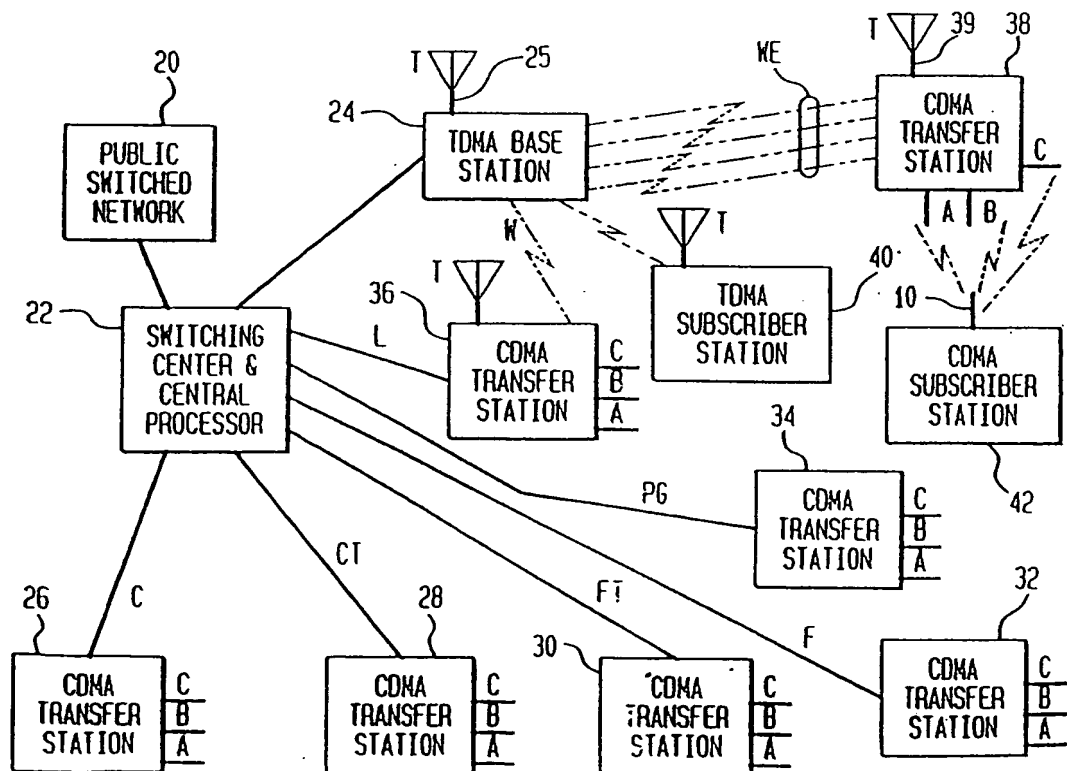


FIG. 3

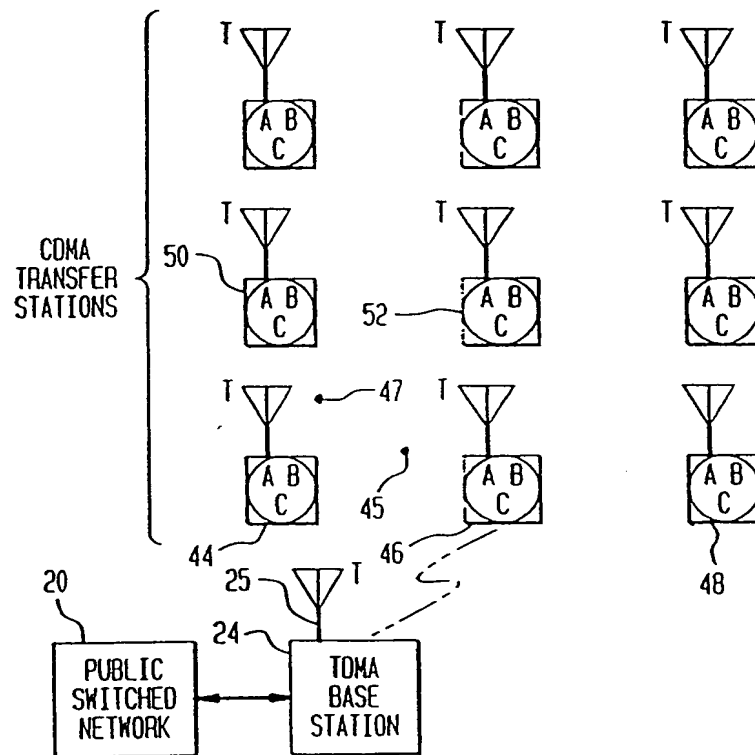


FIG. 4

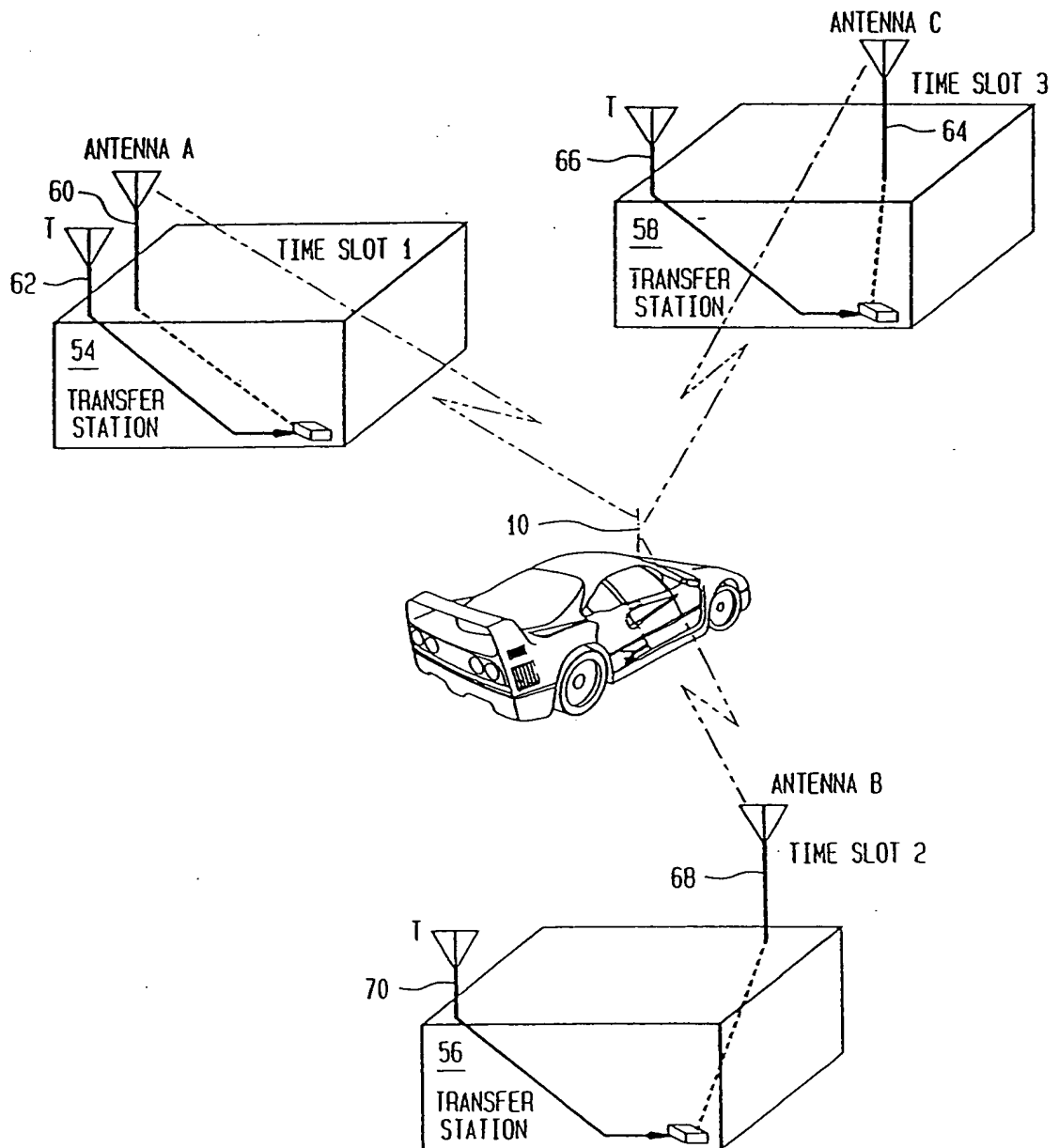


FIG. 5

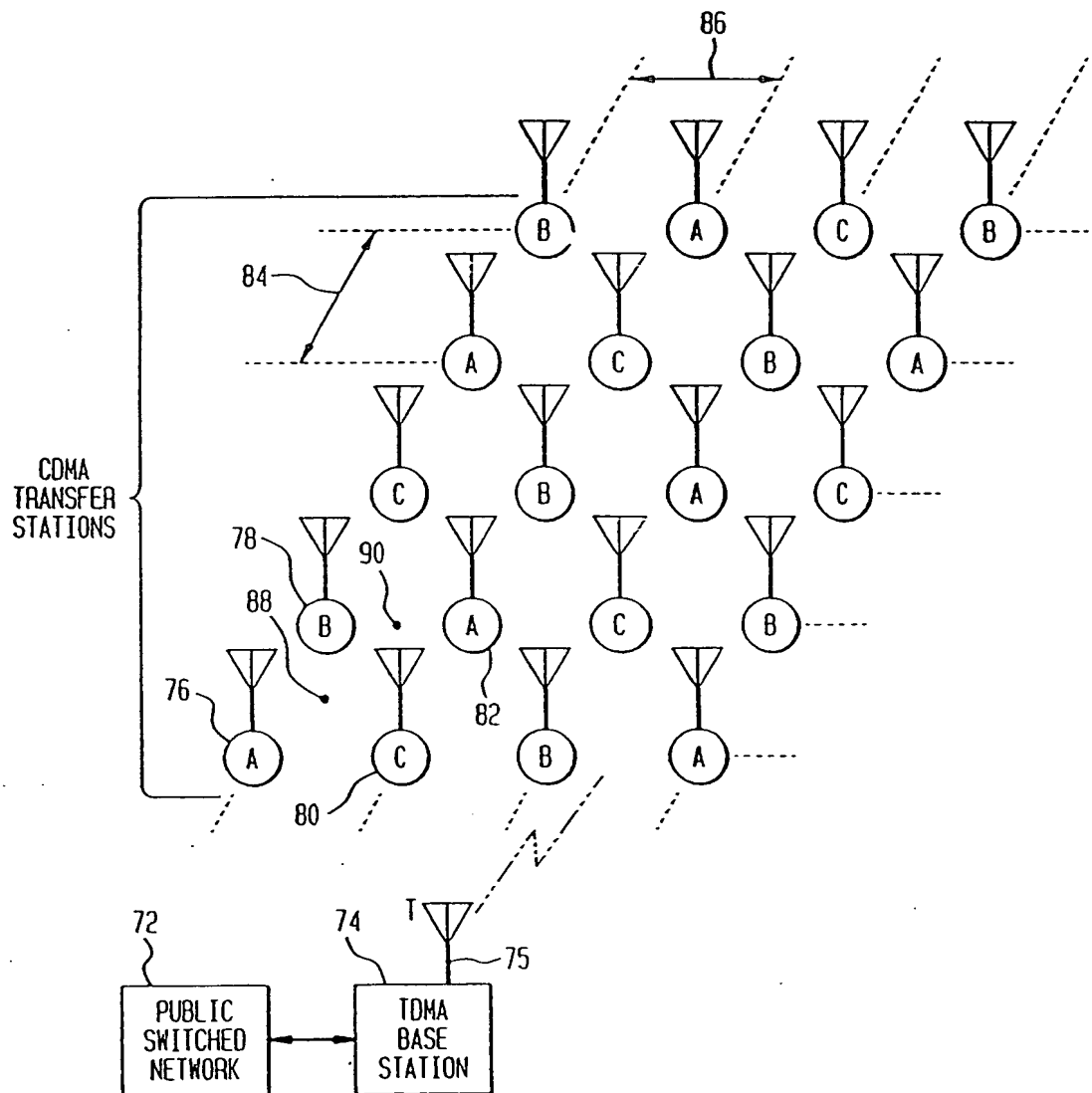


FIG. 6

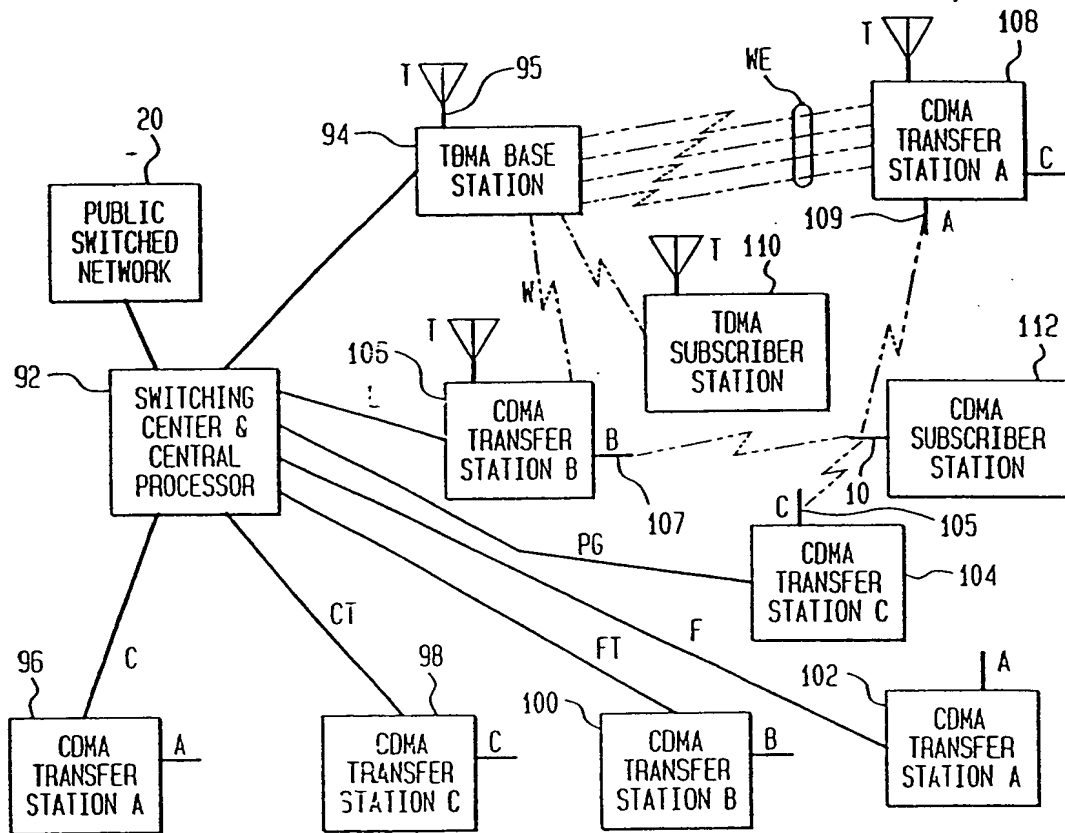


FIG. 7

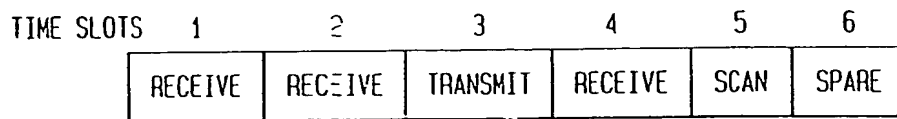


FIG. 8

## TRANSFER STATION FORWARD CHANNEL

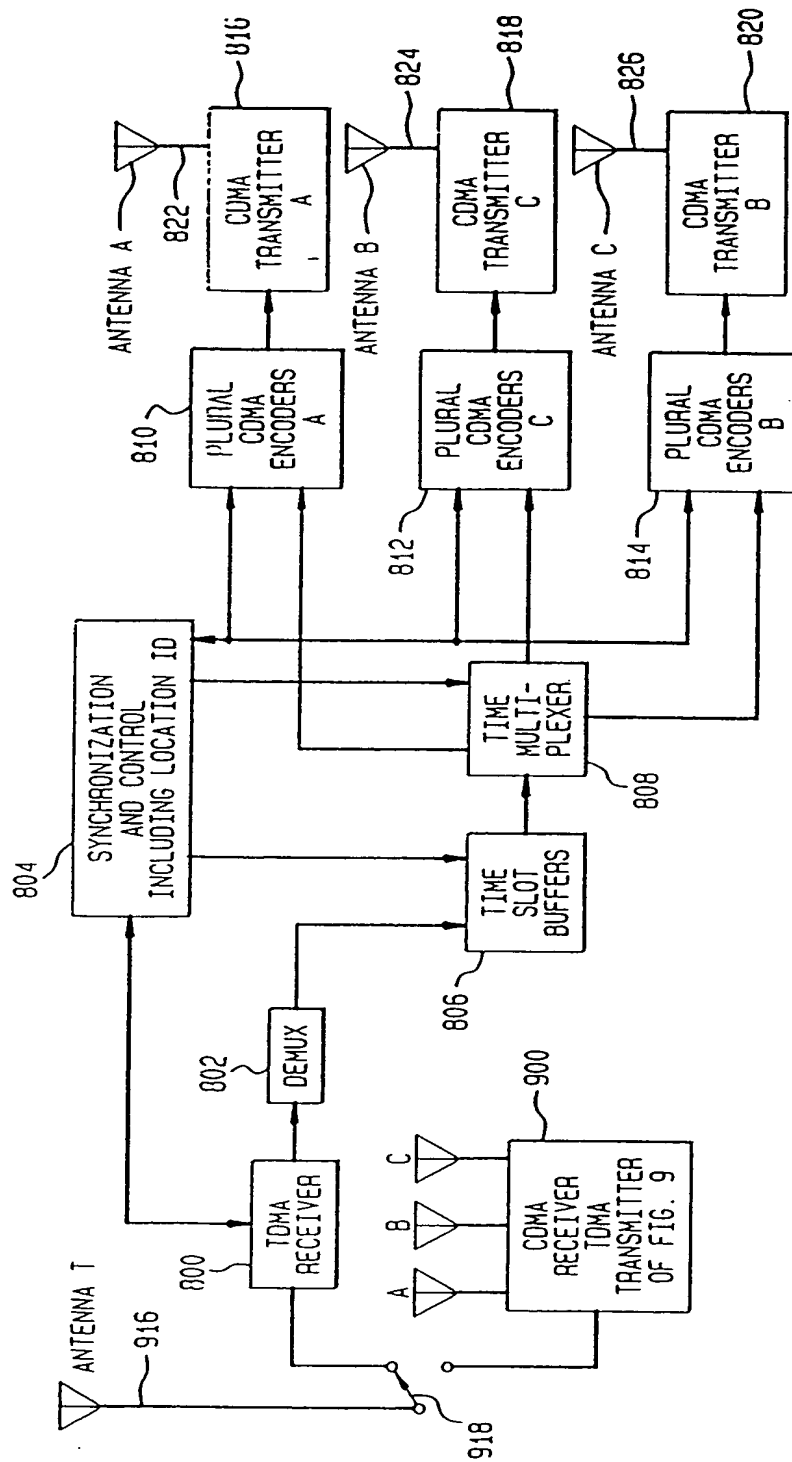
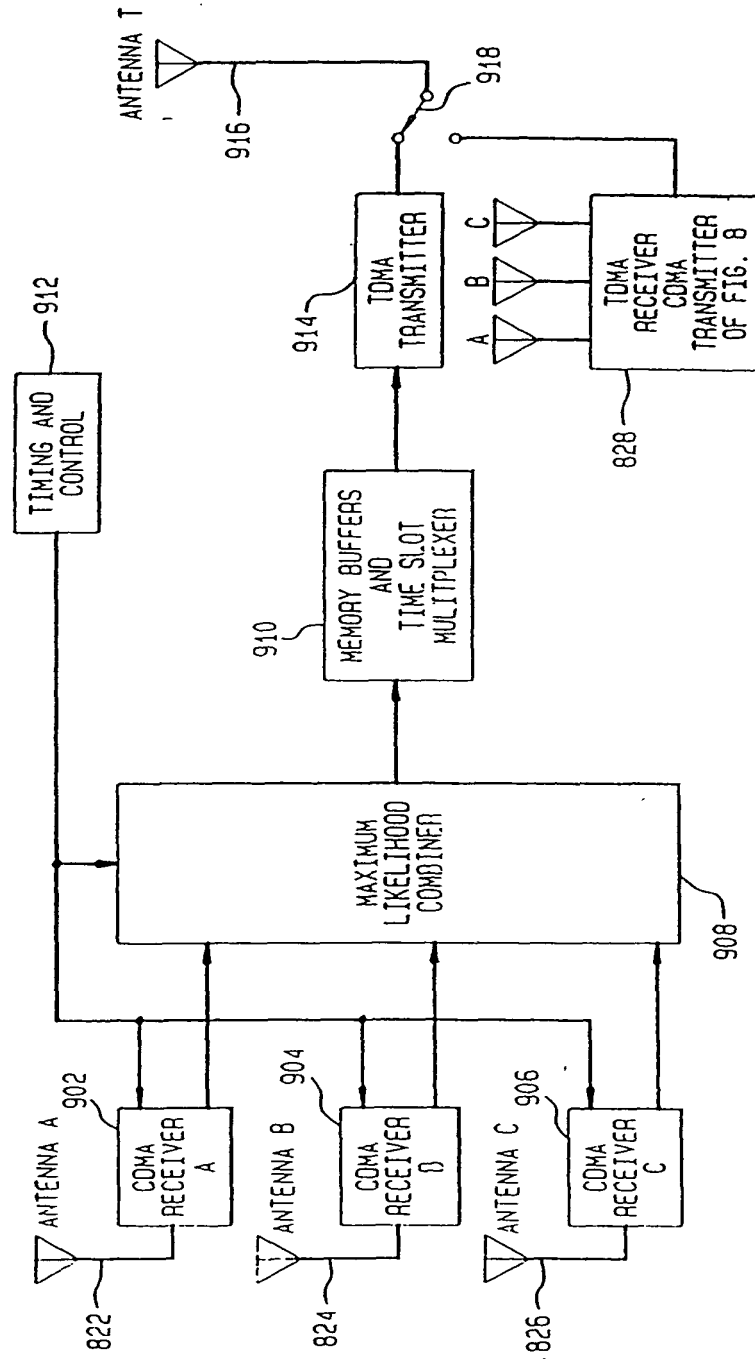


FIG. 9  
TRANSFER STATION REVERSE CHANNEL



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FIG. 10A

TRANSFER STATION CDMA OUTPUT TO ANTENNAS (FORWARD CHANNEL)								
TIME SLOTS	1	2	3	4	5	6	1	2
ANTENNA A	$T_1$	$T_2$	$T_3$	$T_4$	$T_5$	$T_6$	$T_1$	$T_2$
ANTENNA B	$T_6$	$T_1$	$T_2$	$T_3$	$T_4$	$T_5$	$T_6$	$T_1$
ANTENNA C	$T_4$	$T_5$	$T_6$	$T_1$	$T_2$	$T_3$	$T_4$	$T_5$

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TRANSFER STATION CDMA INPUT FROM ANTENNAS (REVERSE CHANNEL)								
TIME SLOTS	1	2	3	4	5	6	1	2
ANTENNA A	$R_5$	$R_6$	$R_1$	$R_2$	$R_3$	$R_4$	$R_5$	$R_6$
ANTENNA B	$R_5$	$R_6$	$R_1$	$R_2$	$R_3$	$R_4$	$R_5$	$R_6$
ANTENNA C	$R_5$	$R_6$	$R_1$	$R_2$	$R_3$	$R_4$	$R_5$	$R_6$

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$T_x$  = TRANSMITTER CHANNEL X       $R_x$  = RECEIVER CHANNEL X

FIG. 10B

TRANSFER STATION CDMA OUTPUT TO ANTENNAS (FORWARD CHANNEL)								
TIME SLOTS	1	2	3	4	5	6	1	2
ANTENNA A	$T_{1,7}$	$T_{2,8}$	$T_{3,9}$	$T_{4,10}$	$T_{5,11}$	$T_{6,12}$	$T_{1,7}$	$T_{2,8}$
ANTENNA B	$T_{6,12}$	$T_{1,7}$	$T_{2,8}$	$T_{3,9}$	$T_{4,10}$	$T_{5,11}$	$T_{6,12}$	$T_{1,7}$
ANTENNA C	$T_{4,10}$	$T_{5,11}$	$T_{6,12}$	$T_{1,7}$	$T_{2,8}$	$T_{3,9}$	$T_{4,10}$	$T_{5,11}$

1006

TRANSFER STATION CDMA INPUT FROM ANTENNAS (REVERSE CHANNEL)								
TIME SLOTS	1	2	3	4	5	6	1	2
ANTENNA A	$R_{5,11}$	$R_{6,12}$	$R_{1,7}$	$R_{2,8}$	$R_{3,9}$	$R_{4,10}$	$R_{5,11}$	$R_{6,12}$
ANTENNA B	$R_{5,11}$	$R_{6,12}$	$R_{1,7}$	$R_{2,8}$	$R_{3,9}$	$R_{4,10}$	$R_{5,11}$	$R_{6,12}$
ANTENNA C	$R_{5,11}$	$R_{6,12}$	$R_{1,7}$	$R_{2,8}$	$R_{3,9}$	$R_{4,10}$	$R_{5,11}$	$R_{6,12}$

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$T_x$  = TRANSMITTER CHANNEL X       $R_x$  = RECEIVER CHANNEL X  
 $T_{x,y}$  = TRANSMITTER CHANNELS X AND Y       $R_{x,y}$  = RECEIVER CHANNELS X AND Y



FIG. 11A

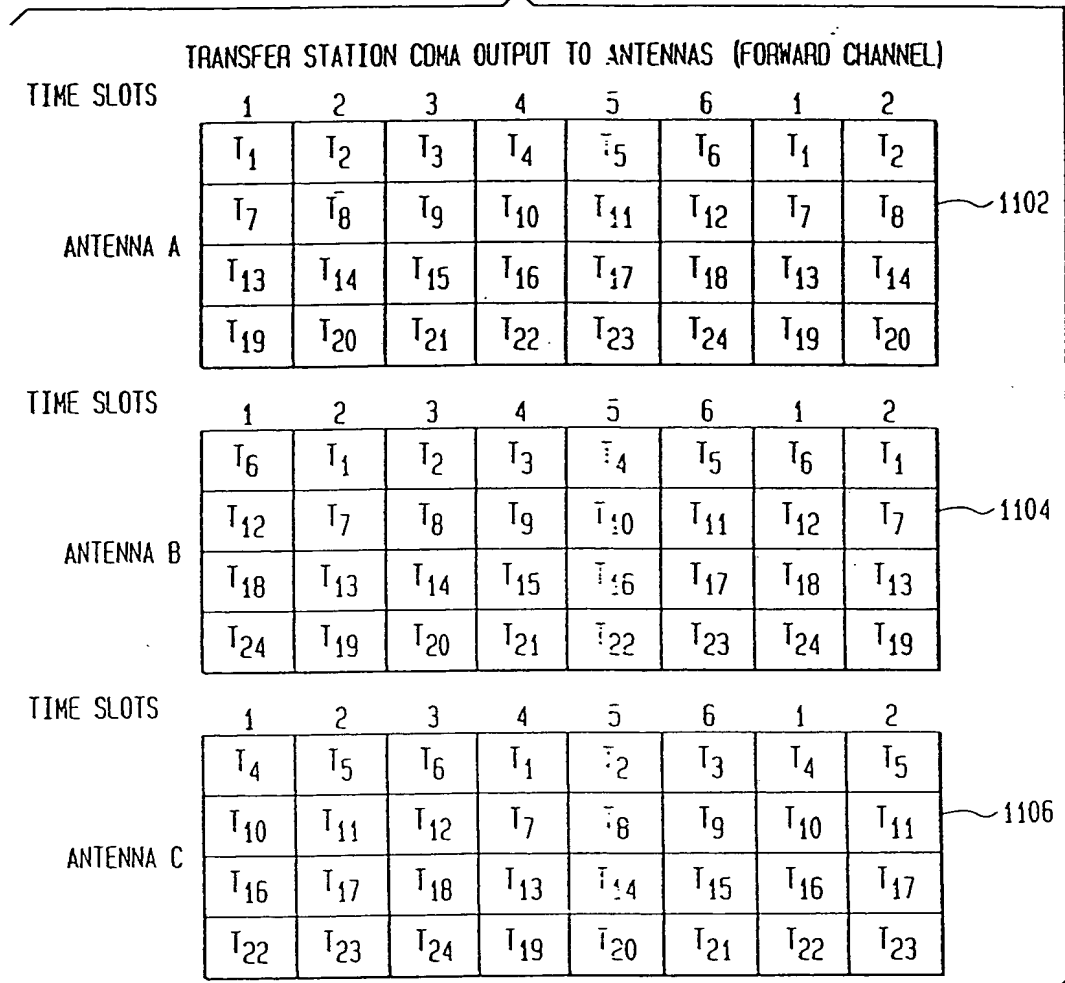


FIG. 11B

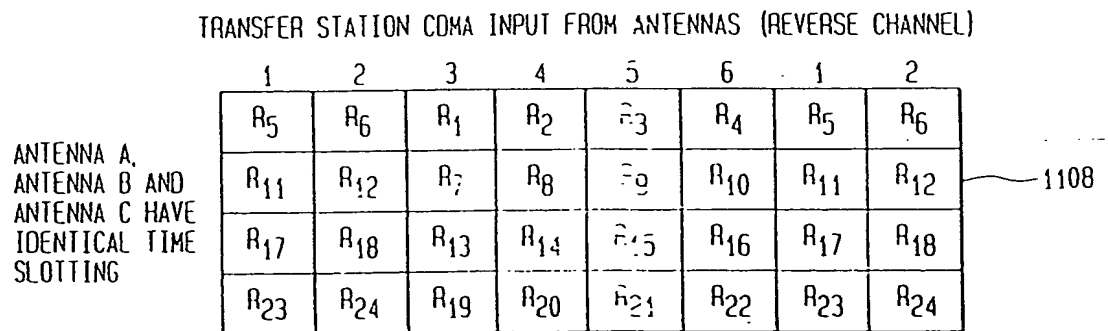


FIG. 12  
TRANSFER STATION

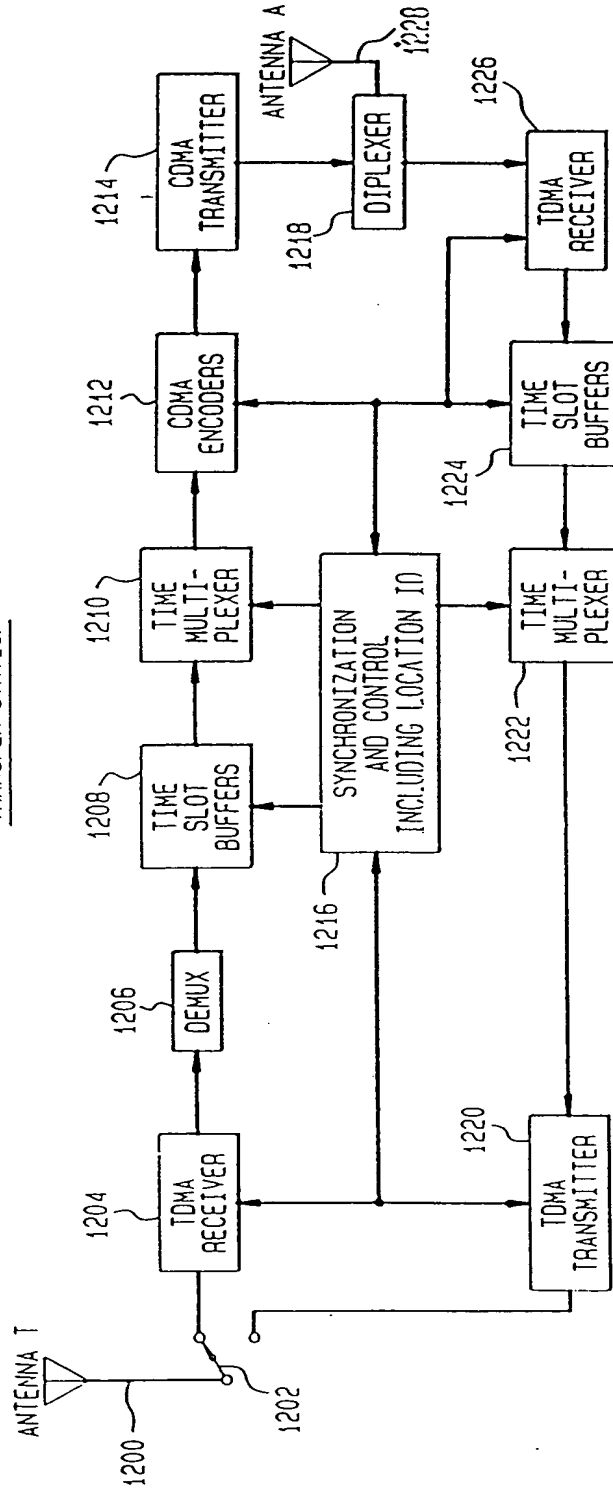


FIG. 13  
SUBSCRIBER STATION

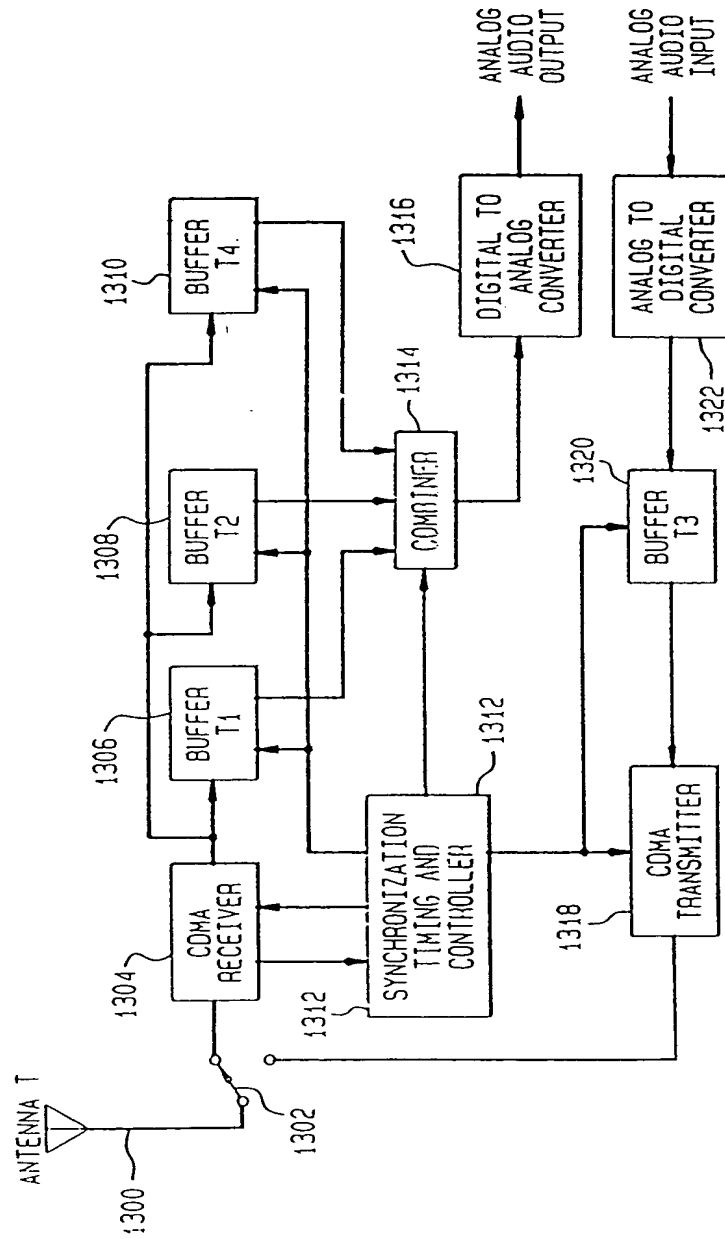
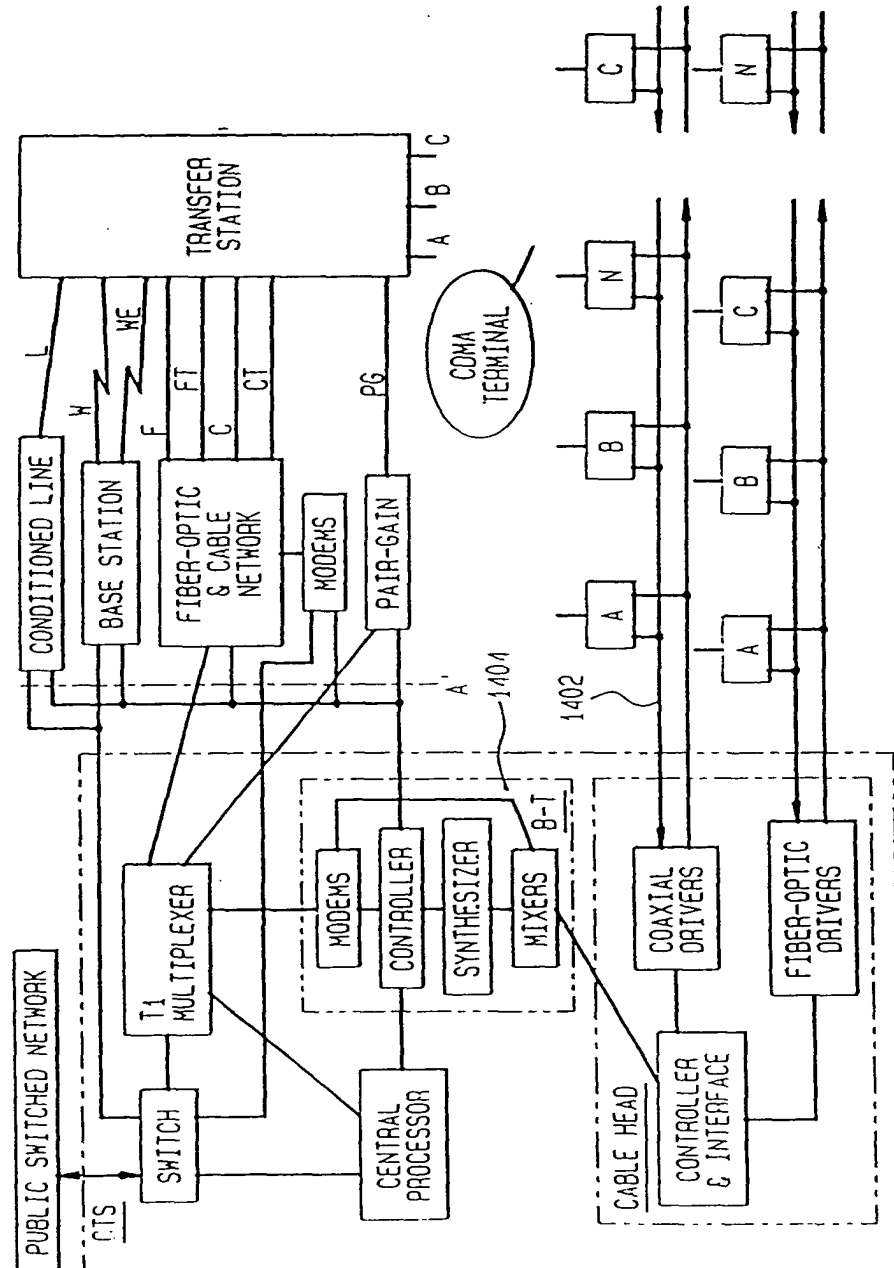
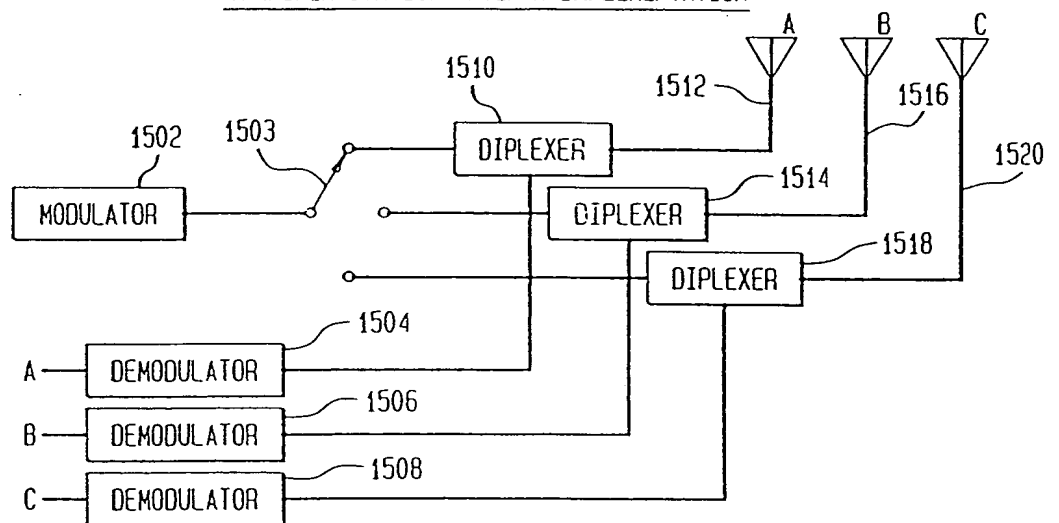


FIG. 14

# CENTRALIZED AND INTEGRATED TRANSFER STATION



**FIG. 15**  
**TRANSFER STATION ANTENNA IMPLEMENTATION**



**FIG. 16**  
DISTRIBUTED ANTENNA IMPLEMENTATION USING CABLE OR FIBER-OPTIC CABLE

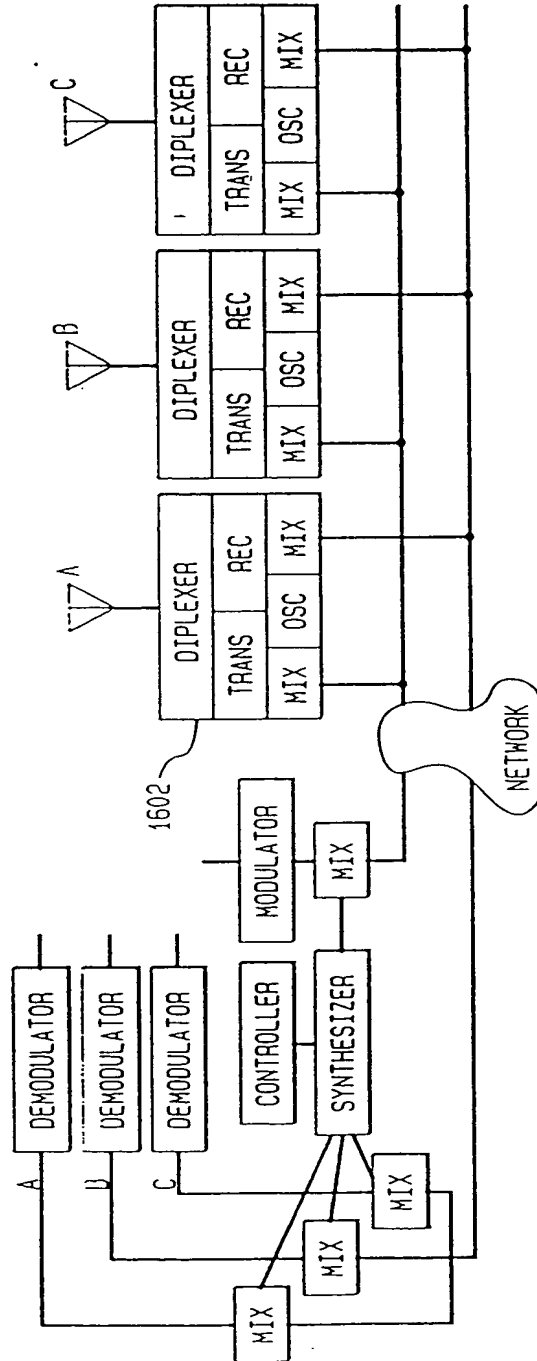
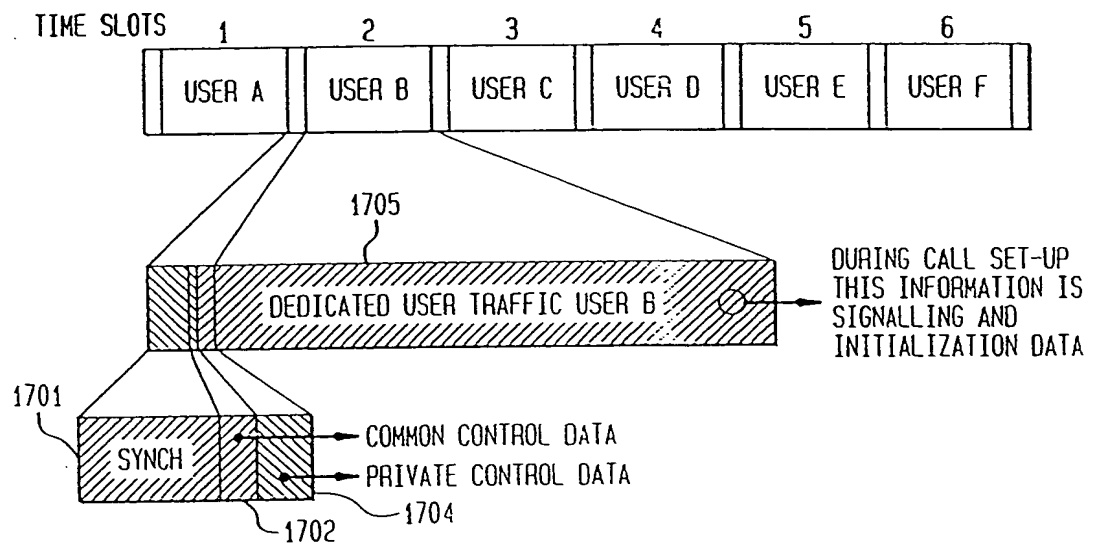
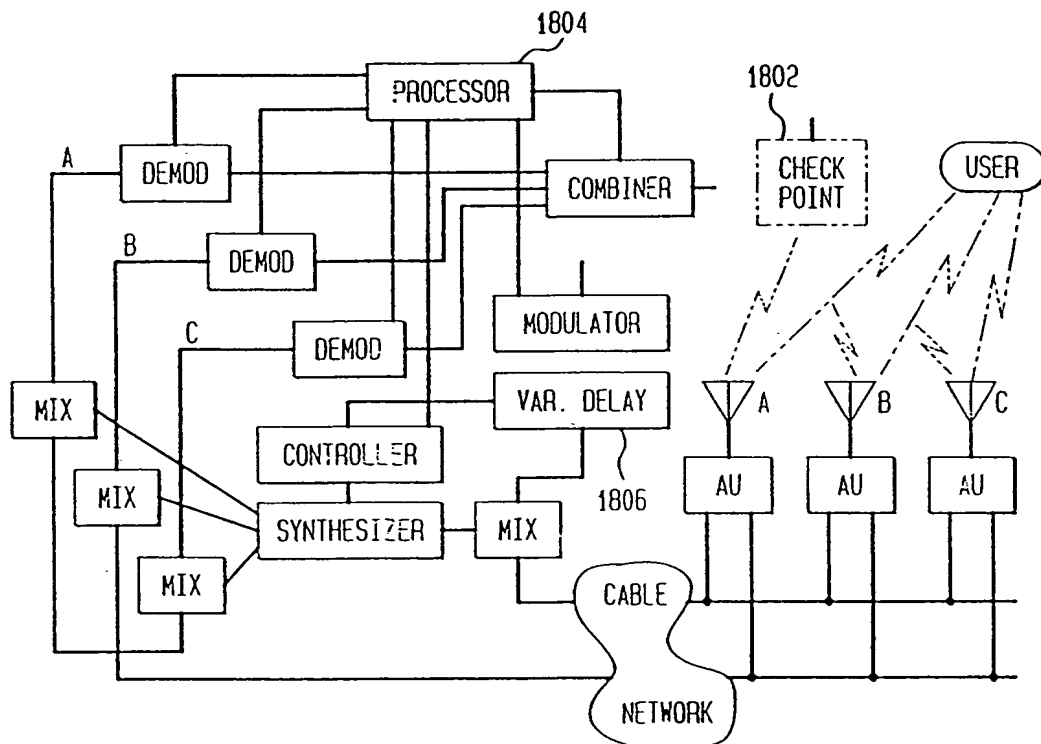


FIG. 17

## SYNCH AND CONTROL CHANNEL STRUCTURE



**FIG. 18**  
**TIME CALIBRATION FOR DISTRIBUTED ANTENNA IMPLEMENTATION**





**FIG. 19**  
LOCATION CENTER EXTERNAL TO COMMUNICATION SYSTEM

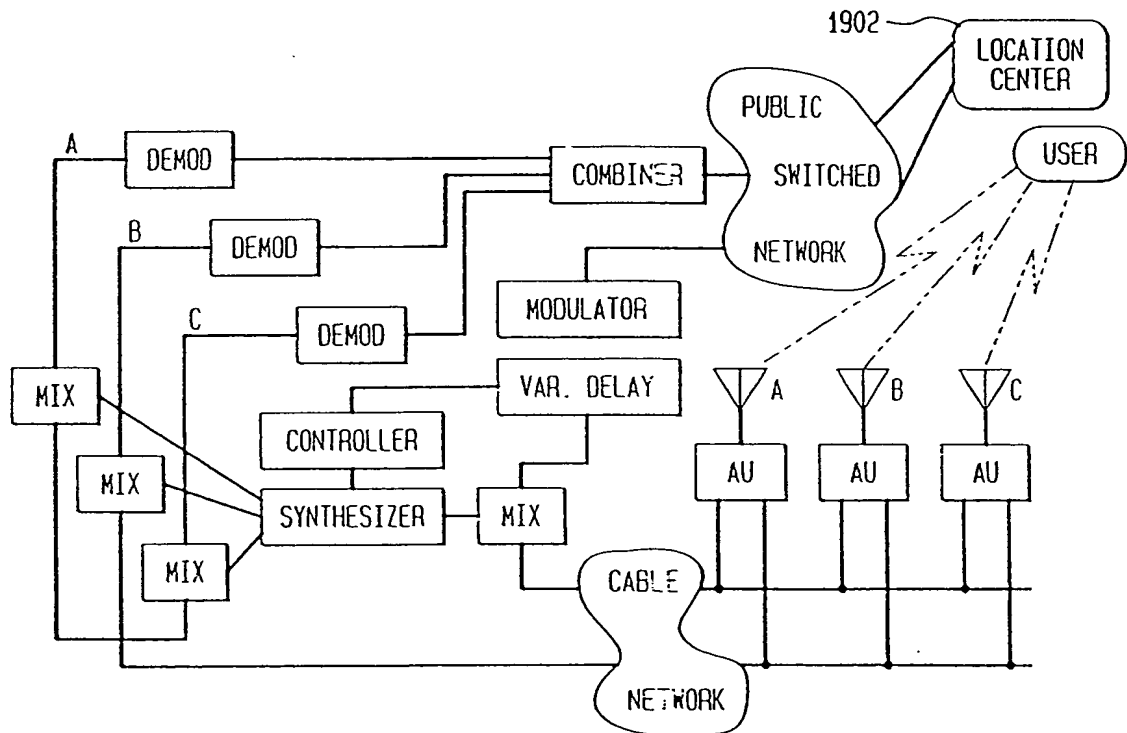


FIG. 20

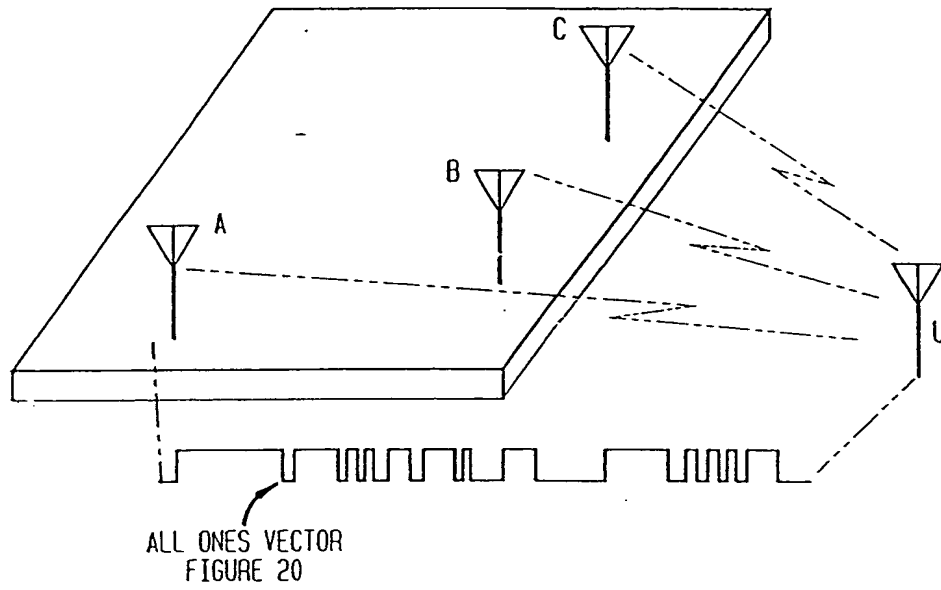


FIG. 21

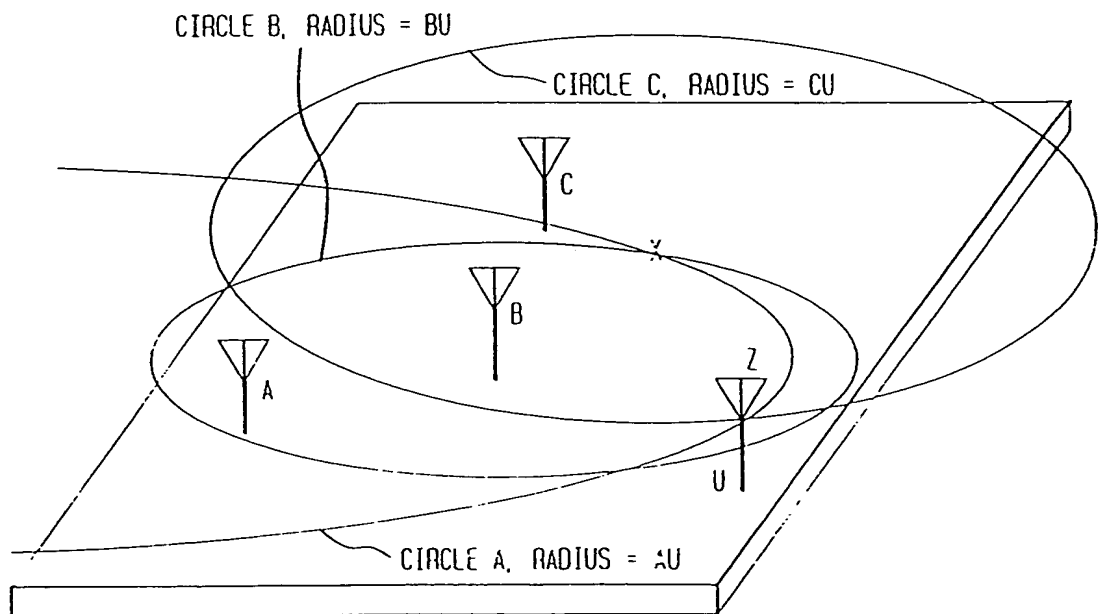


FIG. 22

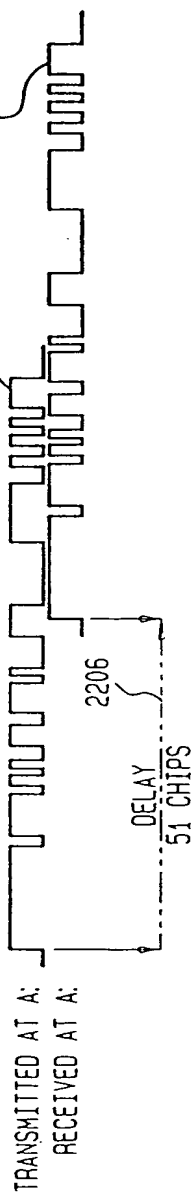


FIG. 23

